

—OR<sup>51</sup>, —SR<sup>52</sup>, —CO<sub>2</sub>R<sup>53</sup>, —OCOR<sup>54</sup>,  
 —NR<sup>55</sup>R<sup>56</sup>, —CONR<sup>57</sup>R<sup>58</sup>, —SO<sub>2</sub>R<sup>59</sup>,  
 —SO<sub>2</sub>NR<sup>60</sup>R<sup>61</sup>, —NR<sup>62</sup>CONR<sup>63</sup>R<sup>64</sup>,  
 —NR<sup>65</sup>CO<sub>2</sub>R<sup>66</sup>, —COR<sup>67</sup>, —NR<sup>68</sup>COR<sup>69</sup> or  
 —NR<sup>70</sup>SO<sub>2</sub>R<sup>71</sup>, and R<sup>51</sup>, R<sup>52</sup>, R<sup>53</sup>, R<sup>54</sup>, R<sup>55</sup>, R<sup>56</sup>,  
 R<sup>57</sup>, R<sup>58</sup>, R<sup>59</sup>, R<sup>60</sup>, R<sup>61</sup>, R<sup>62</sup>, R<sup>63</sup>, R<sup>64</sup>, R<sup>65</sup>, R<sup>66</sup>, R<sup>67</sup>,  
 R<sup>68</sup>, R<sup>69</sup>, R<sup>70</sup> and R<sup>71</sup> each represents independently  
 a hydrogen atom, aliphatic group or aromatic group;  
 wherein R<sup>2</sup> and R<sup>3</sup>, R<sup>3</sup> and R<sup>4</sup>, R<sup>4</sup> and R<sup>5</sup>, R<sup>5</sup> and R<sup>6</sup>,  
 or R<sup>6</sup> and R<sup>7</sup> may be mutually bound to form a ring;  
 wherein X and Y each represents independently  
 C(R<sup>8</sup>)= or N=, R<sup>8</sup> represents a hydrogen atom, ali-  
 phatic group or aromatic group, either X or Y shall  
 represent N=, and X and Y shall not be simulta-  
 neously —N=; and wherein the formula (1) satisfies  
 at least one of following (i) to (v):

[0015] (i) A represents —NR<sup>4</sup>R<sup>5</sup>, R<sup>4</sup> and R<sup>5</sup> each  
 represents independently a C<sub>1-18</sub> alkyl group having  
 a substituent group, the substituent group is at least  
 one member selected from the group consisting of a  
 heterocyclic group, cyano, —OR<sup>141</sup>, —SR<sup>142</sup>,  
 —CO<sub>2</sub>R<sup>143</sup>, —OCOR<sup>144</sup>, —NR<sup>145</sup>R<sup>146</sup>,  
 —CONR<sup>147</sup>R<sup>148</sup>, —SO<sub>2</sub>R<sup>149</sup>, —SO<sub>2</sub>NR<sup>150</sup>R<sup>151</sup>,  
 —NR<sup>152</sup>CONR<sup>153</sup>R<sup>154</sup>, —NR<sup>155</sup>CO<sub>2</sub>R<sup>156</sup>,  
 —COR<sup>157</sup>, —NR<sup>158</sup>COR<sup>159</sup> and —NR<sup>160</sup>SO<sub>2</sub>R<sup>161</sup>,  
 and R<sup>141</sup>, R<sup>142</sup>, R<sup>143</sup>, R<sup>144</sup>, R<sup>145</sup>, R<sup>146</sup>, R<sup>147</sup>, R<sup>148</sup>,  
 R<sup>149</sup>, R<sup>150</sup>, R<sup>151</sup>, R<sup>152</sup>, R<sup>153</sup>, R<sup>154</sup>, R<sup>155</sup>, R<sup>156</sup>, R<sup>157</sup>,  
 R<sup>158</sup>, R<sup>159</sup>, R<sup>160</sup> and R<sup>161</sup> each represents indepen-  
 dently a hydrogen atom, aliphatic group or aromatic  
 group;

[0016] (ii) R<sup>2</sup> represents a substituted alkyl group;

[0017] (ii)' R<sup>7</sup> represents a substituted alkyl group;

[0018] (iii) R<sup>8</sup> represents an aryl group having 2 or  
 more substituent groups;

[0019] (iv) Two or more substituent groups repre-  
 sented by —NR<sup>170</sup>SO<sub>2</sub>R<sup>171</sup> are present in the mole-  
 cule, and R<sup>170</sup> and R<sup>171</sup> each represents indepen-  
 dently a hydrogen atom, aliphatic group or aromatic  
 group; and

[0020] (v) One or more carboxyl groups are present  
 in the molecule.

[0021] In a second aspect of the present invention, there is  
 provided a coloring composition, said coloring composition  
 comprising a dispersion medium and coloring particulates  
 comprising a polymer which is selected from the group  
 consisting of polyurethanes, polyesters, polyamides, poly-  
 ureas and polycarbonates; and an oil-soluble dye represented  
 by said formula (1).

[0022] In a third aspect of the present invention, there is  
 provided an ink jet recording method, said method compris-  
 ing the steps of (a) preparing an ink for an ink jet and (b)  
 using the ink for recording in an ink-jet printing device,  
 wherein the ink comprising a coloring composition compris-  
 ing a dispersion medium and coloring particulates contain-  
 ing a polymer selected from the group consisting of  
 polyurethanes, polyesters, polyamides, polyureas and poly-  
 carbonates; and an oil-soluble dye represented by said  
 formula (1).

## DESCRIPTION OF THE PREFERRED EMBODIMENTS

[0023] The coloring composition, the ink for an ink jet,  
 and the ink jet recording method of the present invention  
 will be described hereinafter.

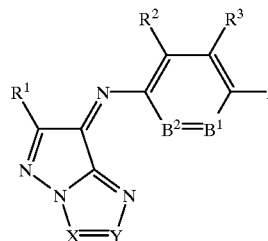
### Coloring Composition

[0024] The coloring composition of the present invention  
 comprises coloring particulates containing an oil-soluble  
 dye and a polymer dispersed in a dispersion medium. The  
 dispersion medium is preferably a water-based medium. The  
 water-based medium means a liquid containing at least  
 water.

### Oil-soluble Dye

[0025] The oil-soluble dye is preferably a compound rep-  
 resented by formula (1).

Formula (1)



[0026] In the formula (1) above, R<sup>1</sup> represents a hydrogen  
 atom, aliphatic group, aromatic group, heterocyclic group,  
 cyano, —OR<sup>11</sup>, —SR<sup>12</sup>, —CO<sub>2</sub>R<sup>13</sup>, —OCOR<sup>14</sup>,  
 —NR<sup>15</sup>R<sup>16</sup>, —CONR<sup>17</sup>R<sup>18</sup>, —SO<sub>2</sub>R<sup>19</sup>, —SO<sub>2</sub>NR<sup>20</sup>R<sup>21</sup>,  
 —NR<sup>22</sup>CONR<sup>23</sup>R<sup>24</sup>, —NR<sup>25</sup>CO<sub>2</sub>R<sup>26</sup>, —COR<sup>27</sup>,  
 —NR<sup>28</sup>COR<sup>29</sup> or —NR<sup>30</sup>SO<sub>2</sub>R<sup>31</sup>; and R<sup>11</sup>, R<sup>12</sup>, R<sup>13</sup>, R<sup>14</sup>,  
 R<sup>15</sup>, R<sup>16</sup>, R<sup>17</sup>, R<sup>18</sup>, R<sup>19</sup>, R<sup>20</sup>, R<sup>21</sup>, R<sup>22</sup>, R<sup>23</sup>, R<sup>24</sup>, R<sup>25</sup>, R<sup>26</sup>,  
 R<sup>27</sup>, R<sup>28</sup>, R<sup>29</sup>, R<sup>30</sup> and R<sup>31</sup> each represents independently a  
 hydrogen atom, aliphatic group or aromatic group.

[0027] In particular, R<sup>1</sup> is preferably a hydrogen atom,  
 aliphatic group, aromatic group, —OR<sup>11</sup>, —SR<sup>12</sup>,  
 —NR<sup>15</sup>R<sup>16</sup>, —SO<sub>2</sub>R<sup>19</sup>, —NR<sup>22</sup>CONR<sup>23</sup>R<sup>24</sup>,  
 —NR<sup>25</sup>CO<sub>2</sub>R<sup>26</sup>, —NR<sup>28</sup>COR<sup>29</sup> or —NR<sup>30</sup>SO<sub>2</sub>R<sup>31</sup>, more  
 preferably a hydrogen atom, aliphatic group, aromatic  
 group, —OR<sup>11</sup> or —NR<sup>15</sup>R<sup>16</sup>, further preferably a hydrogen  
 atom, alkyl group, substituted alkyl group, aryl group,  
 substituted aryl group, alkoxy group, substituted alkoxy  
 group, phenoxy group, substituted phenoxy group, dialkyl  
 amino group or substituted dialkyl amino group, particularly  
 preferably a hydrogen atom, C<sub>1-10</sub> alkyl group, C<sub>1-10</sub> sub-  
 stituted alkyl group, C<sub>6-10</sub> aryl group or C<sub>6-10</sub> substituted  
 aryl group, most preferably a hydrogen atom, C<sub>1-6</sub> alkyl  
 group or C<sub>1-6</sub> substituted alkyl group.

[0028] The aliphatic group includes an alkyl group, sub-  
 stituted alkyl group, alkenyl group, substituted alkenyl  
 group, alkynyl group, substituted alkynyl group, aralkyl  
 group and substituted aralkyl group.

[0029] The alkyl group may be straight-chain or branched  
 one or may have formed a ring. The number of carbon atoms  
 in the alkyl group is preferably 1 to 20, more preferably 1 to  
 18.